



Seat No. : _____

DG-103

December-2025

4th Year M.Sc. (CA & IT), Sem.-VII

Software Project Management and Testing

Time : 2:30 Hours]

[Max. Marks : 70

1. Answer the following questions :

- (1) What is a process-based approach in project execution ? Explain its importance. 6

OR

- (1) Explain the five maturity levels of the Capability Maturity Model (CMM). 6
(2) Differentiate between fixed-price and time-and-materials contracts. 4
(3) Explain the components of a good Software Requirements Specification (SRS) document. 4

2. Answer the following questions :

- (1) Discuss the relationship between PCB and software quality improvement. 6

OR

- (1) What is a process database ? Explain its role in organizational process improvement. 6
(2) Differentiate between Basic, Intermediate, and Detailed COCOMO models. 4
(3) Explain different techniques used for software defect estimation. 4

3. Answer the following questions :

- (1) Define configuration management. Why is it crucial in software development ? 6

OR

- (1) What is life cycle execution in software development ? Explain its significance. 6
(2) What is a Project Management Plan ? Explain its purpose in project execution. 4
(3) Compare life cycle execution in traditional (Waterfall) and modern (Agile) methodologies. 4

4. Answer the following questions :

- (1) Explain the concept of Peer Review in project management. Discuss its objectives and how it contributes to improving project quality. **6**

OR

- (1) What is Project Monitoring and Control ? Describe the key activities involved and explain how it helps ensure successful project execution. **6**
- (2) Explain the significance of control mechanisms in Project Monitoring and Control. Provide examples of tools or techniques used in this process. **4**
- (3) Discuss the various documents and deliverables that need to be finalized during the Project Closure phase. Why are they important ? **4**

5. Answer the following questions :

- (1) Explain how CASE tools such as MS Project, Visual SourceSafe, MS Visio, and Selenium can be used together in a software development lifecycle to improve productivity and quality. **6**

OR

- (1) What is requirement specification and management ? Discuss its importance and the key steps involved in managing software requirements effectively **6**
- (2) Explain Git vs Github. **4**
- (3) Explain the key features of MS Project. How does it help project managers in planning, scheduling, and tracking project activities ? **4**
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